SEQUENCE LISTING

<110> Anderson, Christen M.
Davis, Robert E.
Clevenger, William
Wiley, Sandra Eileen
Willer, Scott W.
Szabo, Tomas R.
Ghosh, Soumitra S.
Moos, Walter H.
Pei, Yazhong

<120> PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

<130> 660088.420C1

<140> US 09/393,441
<141> 1999-09-08

<160> 37

<170> FastSEQ for Windows Version 3.0

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<212> DNA
<213> Homo sapien

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gccagcaaac agatcagtgc tgagaagcag tacaaaggga tcattgattg tgtggtgaga 180
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gcaaaagacg aaggagccaa ggccttcttc aaaggtgcct ggtccaatgt gctgagaggc 840
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gccagcaagc agatcactgc agataagcaa tacaaaggca ttatagactg cgtggtccgt 180
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attgctcgtg atgaaggagg caaagctttt ttcaagggtg catggtccaa tgttctcaga 840
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<220>
<223> PCR Primer

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<211> 43
<212> DNA
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<400> 11
cgccaaaaca gccaagct 18

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<220>
<223> Mutagenic oligonucleotide primer

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<210> 14
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<400> 19
acttcaagga gaatttcc 18

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<400> 21
tacggccaag ggcattct 18

<210> 22
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<400> 23
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<210> 25
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<400> 25
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<210> 26
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<212> DNA
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<400> 26
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<212> DNA
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<223> PCR primer

<400> 27
ttataggatc cttagatcac cttcttgagc tcgtcgtaca g 41

<210> 28
<211> 42
<212> DNA
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<220>
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<400> 28
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<210> 29
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 29
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<210> 30
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

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<210> 31
<211> 297
<212> PRT
<213> Homo sapien

<400> 31
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20 25 30
Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ser Ala Glu
35 40 45
Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
50 55 60
Gln Gly Phe Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
65 70 75 80
Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
85 90 95
Gln Leu Phe Leu Gly Gly Val Asp Arg His Lys Gln Phe Trp Arg Tyr
100 105 110
Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
115 120 125
Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
130 135 140
Val Gly Arg Arg Ala Gln Arg Glu Phe His Gly Leu Gly Asp Cys Ile
145 150 155 160
Ile Lys Ile Phe Lys Ser Asp Gly Leu Arg Gly Leu Tyr Gln Gly Phe
165 170 175
Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe Gly
180 185 190
Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Val His
195 200 205
Ile Phe Val Ser Trp Met Ile Ala Gln Ser Val Thr Ala Val Ala Gly
210 215 220
Leu Leu Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln
225 230 235 240
Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp Cys
245 250 255
Trp Arg Lys Ile Ala Lys Asp Glu Gly Ala Lys Ala Phe Phe Lys Gly
260 265 270
Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu Val
275 280 285
Leu Tyr Asp Glu Ile Lys Lys Tyr Val
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<210> 32
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<212> PRT
<213> Homo sapien

<400> 32

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            20                  25                  30
Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Thr Ala Asp
        35                  40                  45
Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
    50                  55                  60
Gln Glu Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
65                  70                  75                  80
Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
                85                  90                  95
Gln Ile Phe Leu Gly Gly Val Asp Lys Arg Thr Gln Phe Trp Arg Tyr
            100                 105                 110
Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
        115                 120                 125
Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
    130                 135                 140
Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
145                 150                 155                 160
Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
                165                 170                 175
Phe Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
            180                 185                 190
Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
        195                 200                 205
His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
    210                 215                 220
Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
225                 230                 235                 240
Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
                245                 250                 255
Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
            260                 265                 270
Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
        275                 280                 285
Val Leu Tyr Asp Glu Ile Lys Lys Tyr Thr
    290                 295

      <210> 33
      <211> 298
      <212> PRT
      <213> Homo sapien

      <400> 33
Met Thr Glu Gln Ala Ile Ser Phe Ala Lys Asp Phe Leu Ala Gly Gly
 1               5                  10                  15
Ile Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
            20                  25                  30
Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ala Ala Asp
        35                  40                  45
Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
    50                  55                  60
Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
65                  70                  75                  80
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Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
                85                  90                  95
Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
            100                 105                 110
Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
        115                 120                 125
Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
    130                 135                 140
Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
145                 150                 155                 160
Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly
                165                 170                 175
Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
            180                 185                 190
Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
        195                 200                 205
His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
    210                 215                 220
Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
225                 230                 235                 240
Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
                245                 250                 255
Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
            260                 265                 270
Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
        275                 280                 285
Val Leu Tyr Asp Glu Leu Lys Lys Val Ile
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<223> Primer for PCR amplification of EYFP

<400> 36
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<210> 37
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<212> DNA
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<220>
<223> Primer for PCR amplification of EYFP

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